

ISSUANCE TRANSMITTAL SHEET

45
ISSUANCE NUMBER:

MPD 8070.1

DATE:

October 6, 1967

MATERIAL TRANSMITTED

1. Marshall Program Directive, MPD 8070.1, Subject: Use of Flammable Materials in Saturn V Program.
2. The purpose of this Program Directive is to establish the requirements governing the use of flammable materials in Saturn V vehicles as component parts and in the manufacturing, testing, and operation of Saturn V vehicles.
3. This issuance is a new Program Directive.

FILING INSTRUCTIONS

File in standard 3-ring binder in numerical sequence without regard to the alphabetic prefix which identifies the type of issuance.

October 6, 1967

PROGRAM DIRECTIVE

PROGRAM AFFECTED: SATURN V

SUBJECT: USE OF FLAMMABLE MATERIALS IN SATURN V PROGRAM

SATURN V PROGRAM DIRECTIVE NUMBER: 45 REVISION NUMBER: _____

DATE OF REVISION: _____

PREPARED BY: SATURN V SYSTEMS ENGINEERING OFFICE (I-V-E)

PHONE: 876-4396/Harber

1. PURPOSE

This Program Directive establishes:

SATURN V/APOLLO PROGRAM REQUIREMENTS GOVERNING THE USE OF
FLAMMABLE MATERIALS.

2. SCOPE

This Program Directive:

Applies to all Saturn V Stages, Instrument Units, associated GSE,
and their manufacturing, testing, and launch facilities.

3. REFERENCES

- a. TWX from Major General Phillips to KSC, MSFC, and MSC, dated April 19, 1967.
- b. Memorandum, I-V-E-451-67, to Addressees, from Manager, Saturn V Program, dated April 27, 1967, subject: Use of flammable materials in storage and transportation of Saturn V Stages.

4. POLICY

- a. The use of flammable materials in Saturn V Stages and GSE, or in attendant operations, such as manufacturing, testing, shipping, storage, and launch shall be reduced to the absolute minimum consistent with practicality.
- b. Where flammables must be used, appropriate safety precautions shall be issued and enforced.

5. DEFINITIONS

- a. Flammable Materials: Materials which are easily set on fire; that will burn readily or quickly; combustible; or that are ignitable by open flame or hot ashes or embers (i.e., a lighted cigarette).

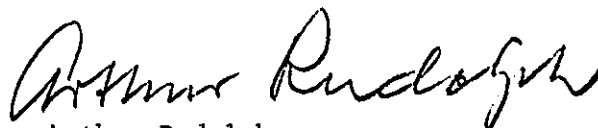
6. RESPONSIBILITY

- a. All Saturn V Stage, Instrument Unit (IU), and GSE Project Managers shall review their projects, and shall take the necessary actions to:
 - (1) Cause their Commodity Contractors to:
 - (a) Identify all flammable materials used as component or integral parts of their stage, IU, or GSE (i.e., propellants, hypergols, insulation, etc.).
 - (b) Identify all flammable materials used in associated activities such as manufacturing, testing, shipping, storage, checkout, etc.; which would, if ignited, cause damage to equipment, stage, or GSE, or injury to personnel.
 - (c) Eliminate, where possible and practicable, the use of flammable materials and substitute non-flammable materials in stage, IU, or GSE or associated activities and operations.
 - (d) Issue and/or enforce appropriate safety precautions and regulations when and where flammable materials must be used.
 - (2) Review their Commodity Contractors actions and safety precautions, and exercise personal discretion in determining that the Commodity Contractors have satisfactorily complied with the intent of this directive.
 - (3) Report progress of these directed actions in the monthly Saturn V Program Review; and report completion of such actions in memo to the Saturn V Program Manager.
- b. All MSFC organizations actively involved with Saturn V stages, IU, or GSE, such that they have temporary custody, transport, test, or otherwise support manufacturing, testing, shipping, or storage operations of subject end items shall:
 - (1) Identify all flammable materials used in their operations, which, if ignited, would damage Saturn V hardware or cause injury to personnel.
 - (2) Eliminate, where possible and practicable, the use of flammable materials or substitute non-flammable materials.
 - (3) Where flammable materials must be used, issue and enforce appropriate safety precautions and regulations.

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- (4) Notify Saturn V Program Manager of compliance with the intent of this directive by memo through Director of the organization.



Arthur Rudolph
Manager, Saturn V Program

Distribution:
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